Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for controlling at least a valve that may be deactivated to operate in at least a cylinder of an internal combustion engine, the method comprising:

operating at least a cylinder in said internal combustion engine;

adjusting the number of valves that operate in a cycle of said cylinder based at least on an operating condition of at least a vehicle chassis system; and

adjusting a damping ratio of at least an engine mount in response to operation of said valve.

- (original The method of Claim 1 wherein said operating condition is at least a modal frequency of said vehicle chassis.
- (original) The method of Claim 1 wherein operation of said valve is further based on said internal combustion engine speed.
- 4. (original) The method of Claim 1 wherein operation of said valve is further based on the number of active cylinders in said internal combustion engine.
- 5. (cancelled)

Page 2 - AMENDMENT Serial No. 10/805,615; Record ID 81100250 6. (original) The method of Claim 1 wherein said valve is a mechanical actuated valve that may be deactivated.

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- (original) The method of Claim 1 wherein said valve is an electromechanical valve. 7.
- 8. (currently amended) A method for controlling at least an electromechanically actuated valve to operate in at least a cylinder of an internal combustion engine, the method comprising: determining an operating condition a modal frequency of a vehicle chassis system; evaluating whether to operate said electromechanical actuated valve in said cylinder based on said operating condition modal frequency;

operating said electromechanically actuated valve during a cycle of said cylinder based on said evaluation.

- 9. (cancelled)
- (original) The method of Claim 8 wherein operation of said electromechanically actuated 10. valve is further based on said internal combustion engine speed.
- 11. (original) The method of Claim 8 wherein operation of said electromechanically actuated valve is further based on the number of active cylinders in said internal combustion engine.
- 12. (original) The method of Claim 8 further comprising adjusting a damping ratio of at least an engine mount in response to operation of said electromechanically actuated valve.

Page 3 - AMENDMENT Serial No. 10/805,615; Record ID 81100250 based on said operating condition;

13. (currently amended) A method for controlling at least an electromechanically actuated valve to operate in at least a cylinder of an internal combustion engine, the method comprising: determining an operating condition of a vehicle mechanical component; evaluating whether to operate said electromechanical actuated valve in said cylinder

operating said selected electromechanically actuated valve during a cycle of said cylinder based on said evaluation; and

adjusting a damping ratio of at least an engine mount in response to operation of said electromechanically actuated valve.

- 14. (original) The method of Claim 13 wherein said operating condition is at least a modal frequency of said vehicle mechanical component.
- 15. (original) The method of Claim 14 wherein said vehicle mechanical component is a bracket.
- 16. (original) The method of Claim 13 wherein operation of said electromechanically actuated valve is further based on said internal combustion engine speed.
- 17. (original) The method of Claim 13 wherein operation of said electromechanically actuated valve is further based on the number of active cylinders in said internal combustion engine.

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(original) The method of Claim 13 wherein said operating condition is at least a modal 18. frequency of a driveshaft.

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- 19. (cancelled)
- (currently amended) A method for controlling electromechanically actuated valves in an 20. internal combustion engine, the method comprising:

determining an operating condition a modal frequency of a vehicle chassis system; evaluating whether to activate a cylinder based on said modal frequency operating condition;

activating said cylinder during a cycle of said cylinder based on said evaluation.

- 21. (cancelled)
- 22. (original) The method of Claim 20 wherein operation of said electromechanically actuated valve is further based on said internal combustion engine speed.
- 23. (currently amended) A computer readable storage medium having stored data representing instructions executable by a computer to control an internal combustion engine of a vehicle, said storage medium comprising:

instructions for operating at least a cylinder in said internal combustion engine with a first number of valves active during a cycle of said cylinder at least during a first vehicle chassis system condition; and

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instructions for operating at least a cylinder in said internal combustion engine with a second number of valves active during a cycle of said cylinder at least during a second vehicle chassis system condition, with said first number different from said second number, and said first vehicle chassis system condition different from said second vehicle chassis condition; and

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instructions for adjusting a damping ratio of at least an engine mount in response to said operation of said electromechanically actuated valves.